

A. J. Meir

UNIV-1100 SMS — First Year Seminar: Scientific Computing Learning Community

Fall 2012

Homework 3

Give a brief answer to each of the following two questions (be concise, each answer must be no longer than 500 words). The August 31 presentation contains links to some data sources, and you may use others. Please cite any data sources that you use.

1. Is the US falling behind in competitiveness and innovation? Note: studies suggest that globally the US ranks:

6th Global innovation-based competitiveness

11th Percent of young adults with high school degrees

16th College completion rate

22nd Broadband internet access

24th Life expectancy at birth

27th Percent of college graduates with science and engineering degrees

48th Quality of K–12 math and science education

2. What must the US do in order to maintain its position, or improve its position with regards to competitiveness and innovation?